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SCORING APPARATUS AND METHOD FOR GAMES

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(57)

The present invention relates to a method and apparatus for monitoring and updating player's standing in a game where players are on-goingly graded according to their performance in competition, for example, golf.

A scoring means is provided which can be updated with a player's score during competition. The scoring means is used to enter the player's score in a processor which has access to player standing information, such as handicap, for example. The processor calculates the player's score for the competition and updates his player standing.

CLAIM

1. A method of monitoring and updating player standing in a game where players are graded according to their performance in competition, comprising the steps of providing a scoring means to be updated with a player's score during competition, reading the scoring means and utilising scoring information entered on the scoring means and read during the reading step to update the player's standing.

AUSTRALIA
Patents Act 1990

ORIGINAL
COMPLETE SPECIFICATION
STANDARD PATENT

Invention Title: Scoring Apparatus And Method For Games

The following statement is a full description of this invention, including
the best method of performing it known to me:

GH&CO REF: P23451-B:TJS

SCORING APPARATUS AND METHOD FOR GAMES

The present invention relates generally to a method and apparatus for scoring in a game, and more particularly to a method and apparatus for monitoring and updating a players standing in a game where players are on-goingly graded according to their performance in competition.

A number of games, particularly at competition level, require monitoring and updating of "players standing", generally being a grading allocated to the player in accordance with the players ability and performance in competitions. For example, in golf, a player is allocated a "handicap" depending upon prior performances.

Monitoring of a players performance can be difficult, and in some games player standing is open to abuse. An example is golf, where any particular player may take part in many competitions at different competition venues. It may be difficult to keep the players "standing" updated as information re competition results may not be easily communicated from one venue to another, particularly results of more recent competitions.

A further problem with games such as golf is that, particularly for large competitions, the calculation of results can take an inordinate length of time, particularly where each player's handicap has to be taken into account, and particularly for competitions where other factors are taken into account, such as length of course and the "difficulty" attached to each hole.

From a first, general aspect, the present invention provides a method and apparatus for receiving, manipulating and storing relevant details of players of a game, in particular relating to player's standing, and for calculating scores for any particular competition, if necessary taking into account player's standing.

From a second aspect, the present invention provides a method of monitoring and updating player standing in a

game where players are graded according to their performance in competition, comprising the steps of providing a scoring means to be updated with a player's score in competition, reading the scoring means and
5 utilising scoring information entered on the scoring means and read during the reading step to update the player's standing.

Preferably, the method includes the further steps of, for each competition, reading the scoring means of a
10 plurality of players and utilising the scoring information entered on the plurality of scoring means to calculate competition results. The competition results and/or player updates are preferably displayed on a display means.

15 Preferably, ~~the player standing information for a~~ plurality of players may be stored on a database and the utilised scoring information for a particular competition is used to update the database for each particular player. Access is advantageously available to the
20 database for any number of competition venues i.e., by communicating required database information to the particular competition venue, ~~either on a direct computer connection, or by facsimile, for example.~~

In the game of golf, the invention can be
25 advantageously applied so that player standing can be conveniently and rapidly ascertained merely by accessing the database for information relating to the particular player. Generally, it will be most convenient if information for particular players is stored on a
30 processing system at their home club. Any other clubs requiring the information, where a player is to play a competition at their club, for example, would merely put in a request for access to the player's home database.

Such a request is not necessary for some embodiments
35 of the invention. For example, in some alternatives, the player may be provided with an identification means which includes a memory which stores player standing information which may be written to be updated. Such

means may be an IC card, for example. Thus if the player is playing "away", information from his IC card may be entered on the system of the particular competition venue. An update to player standing following the competition may then be written on the IC card and/or
5 communicated to his own home club for update of his standing on database.

A further alternative is to have a player database stored at a remote location for all players on a
10 particular competition circuit.

The scoring means preferably comprises means which enables the score to be updated for a particular competition during the competition. The scoring means preferably mounts visually comprehensible information, in
15 the form of printed information to be marked with the players score. The information is preferably readable by a reader means to enter the scoring information on the system, preferably following completion of the players game.

20 Preferably, the scoring means is a printed card or the like. For the game of golf, the card preferably provides visually comprehensible information for allowing a hole by hole score to be marked by the player. The information is preferably readable by an optical
25 character means or the like which will detect markings made by the player on areas of the card indicating the players score for each hole. Information on each hole, such as par, length of hole and difficulty index, may be entered on the system and/or marked on the card for use
30 in calculating competition scores and updating players standing, calculating Stableford points, handicaps, etc.

Preferably, in the game of golf, the card used generally resembles score cards presently provided for manual scoring. The card also has the ability to be read
35 by an optical character reader or the like, however.

In a preferred embodiment, relating to golf, a player will enter his ID on the system of a particular competition venue by swiping a magnetic or IC card into a

card reader. The system will then print a scoring card which shows the players handicap and may show other player details, as well as giving a hole by hole printed pattern to enable the player to mark his score during the competition. Preferably, cards will also be provided for competition markers.

Following their round of golf, the player will enter his completed score card via a card reader and the system will then make various calculations to update the players standing, such as handicap, etc. and also to calculate competition results when a plurality of players have entered their scores. If the player belongs to the particular club where the competition is being played, the database for the player will be updated with his latest standing. If the player belongs to another club then, where the player has an IC card, his status may be updated on the IC card and/or his updated status may be communicated to the database at his home club via a communications link or via computer disk or any other communication means.

Advantageously, this facilitates keeping up to date player's standing for players involved in the competition circuit.

In a third aspect, the present invention provides a processing system for monitoring and updating player standing in a game where players are graded according to their performance in competition, comprising a scoring means arranged to be updated with a player's score in competition, and a processing means for receiving player scoring information from the scoring means and for utilising the scoring information to update the player's standing.

Preferably, the processing system includes means for carrying out any or all of the preferred features of the method discussed above.

From a fourth aspect, the present invention further provides a scoring means for use in a processing system and method as discussed above, the scoring means

comprising a means by which a players score for the competition may be entered.

The scoring means preferably enables the player to enter his score to the scoring means as the competition
5 is ongoing.

Preferably, the scoring means is a card or the like bearing visually comprehensible information arranged to be marked with the player's score.

Preferably, the scoring means may include any or all
10 of the features discussed above in relation to the scoring means of the above aspects of the present invention.

Features and advantages of the present invention will become apparent from the following description of an
15 embodiment thereof, by way of example only, with reference to the accompanying drawings, in which:

Figure 1 is a schematic block diagram of a processing system in accordance with the present invention,

20 Figure 2 illustrates an embodiment of a score card for use as a scoring means in accordance with an embodiment of the present invention, and

Figure 3 is a schematic block diagram of a further processing system in accordance with the present
25 invention which includes the processing system of Figure 1 and a further processing means including a database for processing player information.

A processing system is illustrated in Figure 1 which may be applied in the game of golf. The system comprises
30 a processing means, in the form of a computer 1 including control peripherals and input/output operating systems, which is configured to receive players scoring information from the scoring means illustrated in Figure 2, when the scoring means has been marked with the
35 players results for a particular game, and for utilising the scoring information to update the players standing.

In more detail, the system comprises additionally a data storage means in the form of hard or floppy disk 2;

keypad or keyboard 3 for inputting information and controlling operations; a printer 4 for printing cards and/or other printed materials; a static or dynamic magnetic card reader/writer 5 for reading player identification information from a magnetic stripe card (not shown) carried by each player to identify himself to the system; an OCR/LED scanning device 6 to scan the completed scoring card; an LCD or other electronic screen 7; a storage means for storing scoring cards prior to printing 8; and a wall mounted or free standing electronic display enabling member information, handicap information and competition results to be displayed in the club house 9. The computer 1 and other peripheral devices may be housed in a single unit 10, for ease of access.

It is envisaged that a system such as this would be located at each competition venue, i.e., each golf course. A data base containing player standing information for each player will be stored on the data storage means 2 (or on any other convenient storage means) for access. The database will contain the following information for players who belong to that particular club:

- Player names;
- Player handicap;
- Membership status of player;
- Age.

The database may contain any other details thought to be convenient.

The database can be updated by the system each time the player plays in a competition (or in any other "recognised" game of golf played by the player - what is recognised will generally depend on the club, and competition governing body). Please note that by "database" is meant any record by which a player or a plurality of player's details may be stored, but is preferably a computer database.

For "visiting" players, whose details may not be stored on the database, provision may be made for their results for a particular game of golf to be sent back to their home club for update of their particular database.

5 A further alternative is for the player standing information to be stored on an IC card carried by the player which he uses to identify himself to the system. Following completion of his round, he reintroduces the IC card to the system and his status is updated on the IC
10 card. The next time he plays at his home club his status will automatically be updated once he presents his IC card to his home club system. As a safe guard, data may also be transmitted separately from the update of the IC card, to ensure that the home club has all the necessary
15 information. The system of Figure 1 will, to implement this option, also include an IC card reader.

As a further alternative, a central database may be stored at a remote location for automatic updating from each golf club, storing information relating to all
20 players on a particular competition circuit.

A description of operation of the system in a competition will now be given.

Each player, upon arrival for the competition/round of golf will present their membership card (in this
25 embodiment a magnetic stripe card) to be read by the reader (5). Relevant details from the card will be stored within the memory of the computer. These same details may be entered via the units in built keyboard in the event that for any reason the player's membership
30 card is unavailable.

The printer module (4) then prints a scoring card (Figure 2) with the relevant details on it, including the name of the player, whether or not the player is a visitor, the member number, the players handicap and any
35 other required details. If an IC card is provided the card will preferably include details relating to the player handicap and will be updatable. If no IC card is provided, and the player is a visitor, and there is no

handicap information for them available on the database, it will be necessary for him to mark his handicap on the score card where indicated (see later, description of score card).

5 Note that other information included on the magnetically stripe (or IC) card may include the members (home club) membership number, the home clubs fax number, the registration number of the members home club and the results, club numbers and dates of the last five rounds
10 played by the member (subject to being able to write to the card). Any desired information may be included on the magnetic stripe card or IC card, subject to the ability to write to the card or subject to the carrying capacity of the card.

15 As the player proceeds with their round of golf, at the completion of each hole the score is crossed within the boxes provided on the card (Figure 2, see later). The score may also be written in a non-read area provided on the card for manual calculations for the convenience
20 of the player.

At the completion of the round the scores marked are checked with the markers card and when the accuracy of the card is agreed, the score card is presented to the relevant club official.

25 The score card is then introduced to the system via the OCR/LED scanning device (6) and all details are then placed into the processing means for calculation and manipulation.

Where a plurality of players are engaged in a
30 competition, player scoring information relating to each players score is introduced into a competition database by the computer for calculation and manipulation of competition results when the last players card is entered. When the last card is entered the processing
35 means calculates the calculated course rating for the competition, makes any adjustments applicable to each players handicap and updates the members database record with details of the round played (or provides information

for transmission to the members home club where the member is not on database at this particular club).

5 In the event that the round played is a stableford competition, the processing means having access to the par and index of each hole and the players handicap then makes the calculations required to total the players score for the competition.

10 The competition database is then sorted in order of scores/points and the competition results may be displayed on a wall mounted viewing device 9 and/or may be printed via the printer 4 as hard copy.

Further, a report is produced to indicate any ~~players visiting the club, listing the player's score~~ membership number, the home club number and the home club's fax number, to enable the home club to be notified of their member's away from home playing results (other communication means may be utilised for communicating this information to the player's home club, as discussed above).

20 In a further embodiment, intermediate score monitoring stations may be provided located at tees and at other convenient locations. These stations will be connected to the club house via bi-directional cable or radio links, and will include card readers for allowing reading of player's score cards at intermediate stages of the round. This will enable an on-going display of the results and on-going updates of the results as a competition is actually being played.

30 The computer 1 may also be interfaced with other systems in the club house, so that player information can be accessed by those other systems. Those other systems may include management and accounting computers which require access to personal information of the club members.

35 An example of a scoring card is illustrated in Figure 2. This score card provides similar information to the presently available score cards which enable a player to monitor his progress as he is playing his

round. In addition, the layout and presentation of the score card facilitate automatic reading of the score card by the system to convey to the system hole by hole scores for a player's round, as well as other player information.

In particular, the card generally indicated by reference numeral 11, presents a hole by hole score section 12 which lists the details for each hole, being hole number, par, meter and index and includes a score section 13 for indicating to the optical character reader the number of strokes taken by the player to complete the hole. The score section 13 includes unit digits 1 to 9 positioned in boxes 14 and a "10" and a "20" digit positioned in boxes 15. Positioning these numerical indicators in this way assists reading on a positional basis by the scanner device 6. The player will use a pen to mark his score by marking one of the boxes 14 and/or 15 and the score can then conveniently be read by the scanning device for each hole. A result box 16 is also provided where the player may manually mark his score, if he wishes.

The card is also provided with a member number section 17 with "hundreds" "tens" and "units" presented in a similar scanner reader form so that the system can easily read the member number. The section 18 for the name and whether or not the player is a visitor is also included. The visitor box 19 may also be conveniently read by the scanner.

A handicap section 20 is also provided with similar optically readable presented numeric characters 21, a scores section 22 is also provided for the player to manually enter his score if he requires. A marker section 33 is provided to indicate that a marker has checked the card. Finally, a "type of round" section 24 is also included. This may also be readable by the scanner by way of boxes 25.

The present invention is also applicable to other games, particularly games which require grading of player performance in on-going fashion. The invention is not

limited to grading players performance, however, and may merely be utilised as a convenient automatic scoring system for any game.

5 The scoring means need not be a scoring card, as illustrated in the example embodiment, but could be any means which enables entry of a players score to the system on completion of the game or as the game is on going.

10 In the example embodiment, the software for running the system may obviously be varied as long as it satisfactorily implements the necessary calculations required for calculating the scores for the game, updating player handicap, providing a database for player information, a database for specific competition results
15 etc.

In the preferred embodiment the software front end is a visual basic graphical users interface controlling three relational databases (member's records, competition records and new member's handicapping records - a
20 "member" being a player for a particular club).

Figure 3 illustrates, in schematic block diagrammatic form, a system which includes the processing system described above, together with a "regional" processing means including a player database, at a remote
25 location for all players on a particular competition circuit.

The system which is described above, termed the "player access terminal" and allocated reference numeral
30 in Figure 3, is operated generally as discussed above. It is connected, however, via a telecommunications network 31 to the regional processor 32. The telecommunications network 31 may include any means for transmitting data between the player access terminal 30 and the regional processor 32. Data transmission is
35 preferably two-way. The regional processor includes a no-break power supply 33, a regional centre computer and database 34, local operator terminals 35, for local operation of the regional processor, a network interface 36 to interface with the telecommunications network 31
40 and a gateway interface 37 which enables the regional processor to communicate with international systems.

- 13 -

Each player access terminal operates as discussed above, but, because it is connectable to the regional processor 32 by the telecommunications network 31 player data can be transferred to the database 34 and retrieved from the database 34. If a player is a visitor to a particular club with a player access terminal 30, therefore, details of his handicapping and other required details can be accessed by communications with the database 34. Data transfer may occur whilst a round of golf is being played. Further, once the competition is complete, the player's revised handicap is calculated and relayed to the database 34. This data can be used to update the player access terminal 30 of the player's local club, again via communication on the network 31.

The regional centre database 34 will preferably include information on all players on a particular circuit. The regional processor 32 will be designated a particular area. For example, in Australia, there may be a regional processor 32 for each state.

The system also allows for communication of information on the international circuit via gateway interface 37, to international centres in other countries. Data on players who travel on the international circuit can therefore be accessed easily.

Official access terminals 38 are also provided for access to the system by competition controlling officials.

It will be appreciated that this system may be used for any type of competition which requires access to players standing information.

Variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrated and not restrictive.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method of monitoring and updating player standing in a game where players are graded according to their performance in competition, comprising the steps of providing a scoring means to be updated with a player's score during competition, reading the scoring means and utilising scoring information entered on the scoring means and read during the reading step to update the player's standing.
2. A method in accordance with claim 1, comprising the further steps of, for each competition, ~~reading the scoring means for a plurality of players and~~ utilising the scoring information entered on the plurality of scoring means to calculate competition results.
3. A method in accordance with claim 2, comprising the further step of displaying competition results and/or player updates on a display means.
4. A method in accordance with claims 1, 2 or 3, wherein player standing information for a plurality of players of the game is stored on a database and the utilised scoring information is used to update the database for each particular player.
5. A method in accordance with claim 4, comprising the further step of communicating player standing information from the database between competition venues in order to ascertain for a particular competition venue the player standing of a particular player.
6. A method in accordance with any preceding claim, wherein the step of utilising the scoring information for the player includes the step of communicating information for updating the players standing to a remote location, wherein a player record is kept at the remote location.
7. A method in accordance with any preceding claim, comprising the further step of providing a player

identification means for uniquely identifying each player of the game.

8. A method in accordance with claim 7, comprising the step of utilising the player
5 identification means to identify the player to the system to enable update of player standing for any competition.

9. A method in accordance with claim 7 or claim 8, wherein the player ID means may be carried by the player and includes a storage means which may contain
10 some or all of the player standing information, whereby player standing information may be entered onto a system not containing the player standing information by being read from the storage means.

10. A method in accordance with any preceding
15 claim, wherein the step of reading the scoring means involves reading visually comprehensible information marked on the scoring means for the player's score.

11. A method in accordance with claim 10 wherein the step of reading the scoring means utilises an
20 optical character reader or like device.

12. A method in accordance with claims 10 or 11, wherein the scoring means comprises a card or the like bearing competition information to be marked with the players score during the competition, and printing
25 means are arranged to print the card with player information in response to a player ID being entered into the system.

13. A method in accordance with any preceding claim, applied in the game of golf.

14. A processing system for monitoring and
30 updating player standing in a game where players are graded according to their performance in competition, comprising a scoring means arranged to be updated with a player's score during competition, and a processing means
35 for receiving player scoring information from the scoring means and for utilising the scoring information to update the players standing.

15. A processing system in accordance with claim 14 wherein the processing means is arranged to receive the scoring information from a plurality of players for a competition and to calculate competition results.

16. A processing system in accordance with claim 15, further comprising a display means for displaying competition results and/or player updates.

17. A processing system in accordance with claim 15 or 16, further comprising an intermediate score monitoring station mountable at a location enabling access thereto by a player during competition, communication means for communicating with the processing system, and means for entering the player's score and communicating to the processing system so that the player's score can be updated as the competition is on-going.

18. A processing system in accordance with any one of claims 14 to 17 the processing means further providing a database which stores player standing information for a plurality of players of the game, the processing means being arranged to update the database on the basis of individual players scoring information.

19. A processing system in accordance with claim 18, further comprising communication means for communicating player standing information from the database between competition venues in order to ascertain for a particular competition venue the player standing of any particular player.

20. A processing system in accordance with claim 19, the communicating means also being arranged to communicate scoring information for a particular player to a remote location in order to enable update of the player standing, where a player record is kept at the remote location.

21. A processing system in accordance with any one of claims 14 to 20, further comprising a player

identification means for uniquely identifying each player of the game.

22. A processing system in accordance with claim 21, wherein the processing means is arranged to receive the player ID in order to identify the player to the system to enable update of the player standing for any competition.

23. A processing system in accordance with claims 21 or 22, wherein the player ID means may be carried by the player and includes a storage means for containing some or all of the player standing information, whereby player standing information may be entered onto a system not already containing the player standing information, by reading from the storage means.

24. A processing system in accordance with any one of claims 14 to 23, wherein the scoring means comprises a means by which the players score may be entered as the competition is ongoing.

25. A processing system in accordance with claim 24, wherein the scoring means is a card or the like bearing visually comprehensible information arranged to be marked with the players score.

26. A processing system in accordance with claim 25, the system further comprising a reader means for reading the visually comprehensible information after it has been marked with the players score, and entering scoring information into the processing means.

27. A processing system in accordance with claims 25 or 26, arranged to be used in the game of golf and wherein the card or the like is printed with hole by hole score information separately markable with the players score.

28. A processing system in accordance with claim 27, wherein the card or the like is also printed with information relating to par, length of hole, index, etc., to enable calculation of grading system scores, stableford points, etc.

29. A processing system in accordance with claim 28, wherein the card is printed with player specific information, such as handicap, whether or not the player is a visitor to the competition venue, etc.

5 30. A processing system in accordance with any one of claims 14 to 26, arranged for use with the game of golf.

10 31. A scoring means for a processing system in accordance with any one of claims 14 to 23, the scoring means comprising a means by which a players score may be entered as the competition is on-going.

15 32. A scoring means in accordance with claim 31, comprising a card or the like bearing visually comprehensible information arranged to be marked with the players score.

20 33. A scoring means in accordance with claim 32, wherein the card marked with the players score is visually readable by a reader means for entering scoring information into the system, such as an optical character reader.

34. A scoring means in accordance with claims 31, 32 or 33 arranged to be used in the game of golf.

25 35. A scoring means in accordance with claim 33, the card or the like being printed with hole by hole score information separately markable with the players score.

30 36. A scoring means in accordance with claim 35, wherein the card is printed with information relating to par, length of hole, index, etc., to enable calculation of grading system scores, such as stableford points, etc.

35 37. A scoring means in accordance with claim 36, wherein the card is printed with player specific information, such as handicap, whether or not the player is a visitor to the competition venue, etc.

38. A system for storage and updating of player standing in a game where players are graded according to their performance in competition, comprising

a plurality of processing systems in accordance with any one of claims 14 to 30, and a regional processor connectable via a communications network to the plurality of processing systems, for receiving, and storing in a database included in the regional processor, information on player's standing, whereby a player's standing information from competitions occurring at a plurality of venues can be updated and maintained on a regional database.

10 39. A method of monitoring and updating player standing substantially as herein described with reference to the accompanying drawings.

15 40. A processing system for monitoring and updating player standing, substantially as herein described with reference to the accompanying drawings.

 41. A scoring means, substantially as herein described with reference to the accompanying drawings.

 42. A system, substantially as herein described with reference to the accompanying drawings.

20 Dated this 4th day of September 1995

LAURIE PETERS

By his Patent Attorney

GRIFFITH HACK & CO

ABSTRACT

SCORING APPARATUS AND METHOD FOR GAMES

The present invention relates to a method and apparatus for monitoring and updating player's standing
5 in a game where players are on-goingly graded according to their performance in competition, for example, golf.

A scoring means is provided which can be updated with a player's score during competition. The scoreing
means is used to enter the player's score in a processor
10 which has access to player standing information, such as handicap, for example. The processor calculates the player's score for the competition and updates his player standing.

30445/95

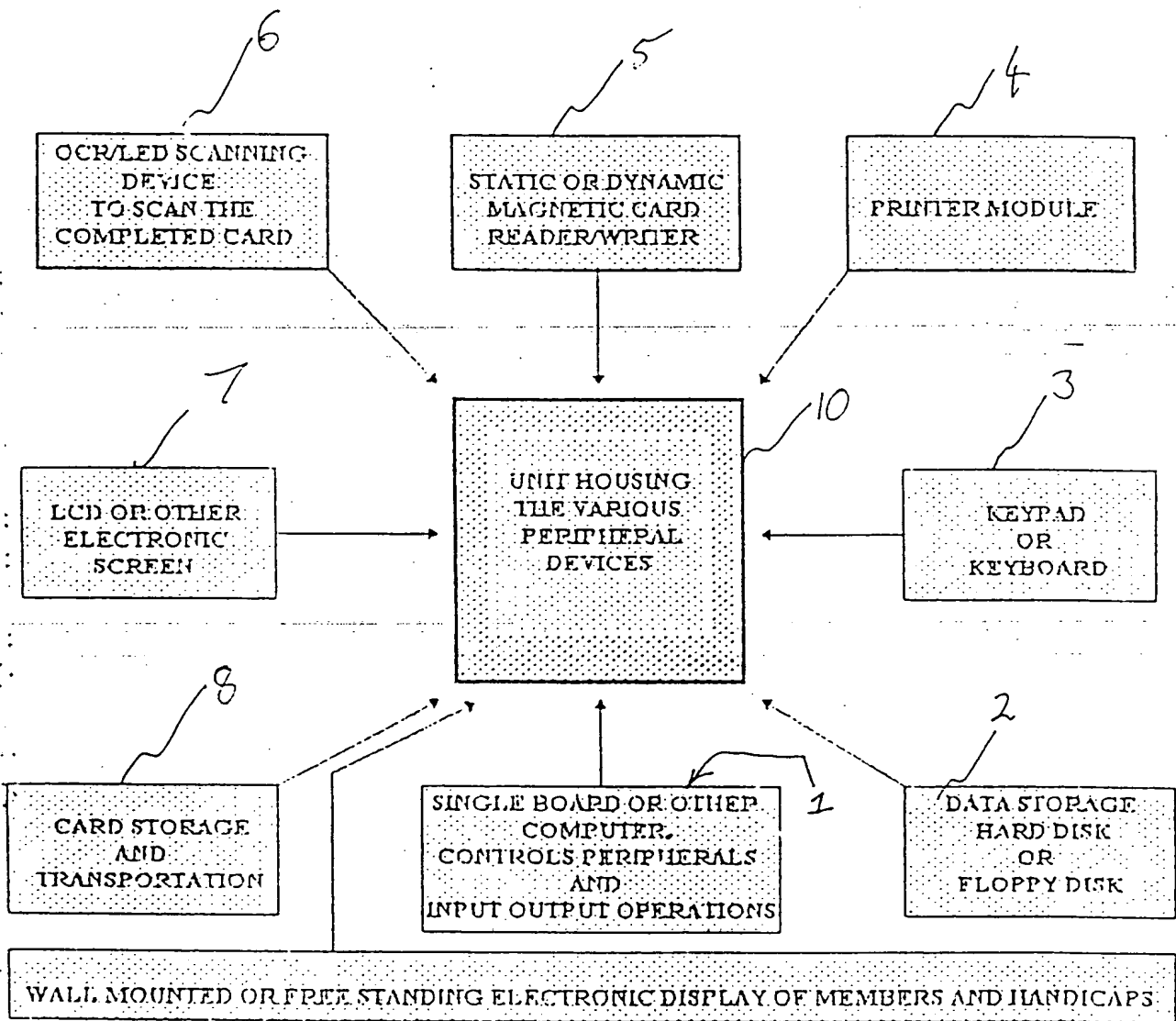


FIGURE 1

DATE _____

MEMBER NUMBER

HUNDREDS TENS UNITS No.

1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0

NAME: _____ VISITOR ☐

HANDICAP 10 20 30 40 1 2 3 4 5 6 7 8 9 RESULT

HOLE	PAR	METRE	INDEX	RESULT
1	4	337	3	
10	20	1 2 3 4 5 6 7 8 9		
2	3	150	8	
10	20	1 2 3 4 5 6 7 8 9		
3	4	325	8	
10	20	1 2 3 4 5 6 7 8 9		
4	3	155	9	
10	20	1 2 3 4 5 6 7 8 9		
5	5	445	1	
10	20	1 2 3 4 5 6 7 8 9		
6	4	325	4	
10	20	1 2 3 4 5 6 7 8 9		
7	5	445	5	
10	20	1 2 3 4 5 6 7 8 9		
8	5	435	2	
10	20	1 2 3 4 5 6 7 8 9		
9	3	175	7	
10	20	1 2 3 4 5 6 7 8 9		

HOLE	PAR	METRE	INDEX	RESULT
10	4	337	12	
10	20	1 2 3 4 5 6 7 8 9		
11	3	150	17	
10	20	1 2 3 4 5 6 7 8 9		
12	3	325	15	
10	20	1 2 3 4 5 6 7 8 9		
13	2	155	18	
10	20	1 2 3 4 5 6 7 8 9		
14	5	445	10	
10	20	1 2 3 4 5 6 7 8 9		
15	4	325	13	
10	20	1 2 3 4 5 6 7 8 9		
16	5	445	14	
10	20	1 2 3 4 5 6 7 8 9		
17	5	435	11	
10	20	1 2 3 4 5 6 7 8 9		
18	3	175	16	
10	20	1 2 3 4 5 6 7 8 9		

OUT	METRE	PAR
	2792	35

IN	METRE	PAR
	2792	35

TOTAL OUT + IN LESS H/C NETT SCORE

PLAYER _____

MARKER _____ No.

TYPE OF ROUND STROKE ☐ PAR ☐ STABLE ☐ HANDICAP ☐ SOCIAL ☐

FIGURE 2

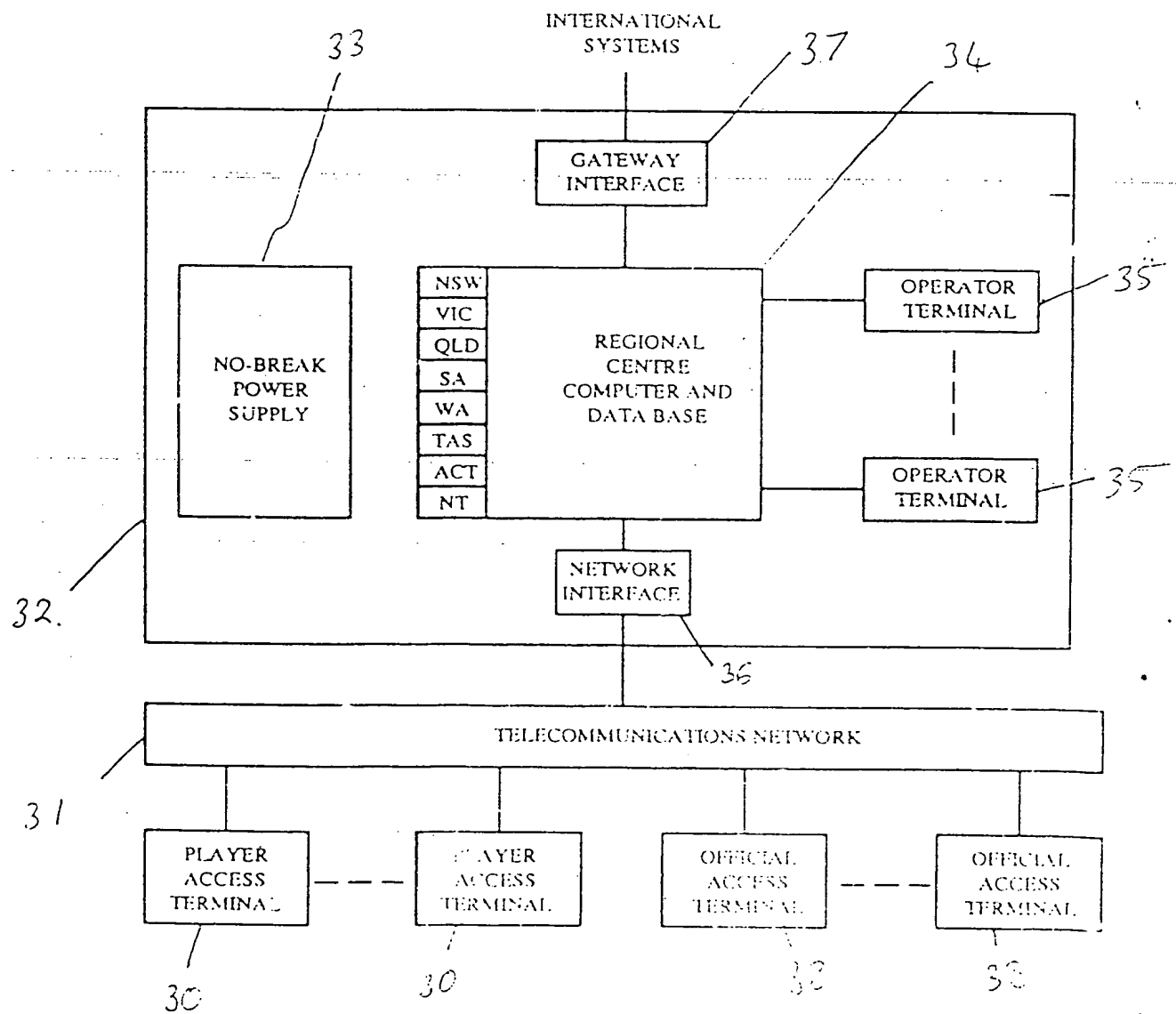


Figure 5